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L4: Entry 1 of 3

File: USPT

Jan 14, 2003

US-PAT-NO: 6506550

DOCUMENT-IDENTIFIER: US 6506550 B1

TITLE: Method of including apoptosis by reducing the level of thiamin

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fulton; Chandler	Weston	MA		
Lai; Elaine Y.	Weston	MA		

US-CL-CURRENT: 435/4; 435/227, 435/325

ABSTRACT:

The disclosure describes methods for inducing apoptosis of a selected group of vertebrate cells in vivo by reducing the level of thiamin in the cells. Included are methods for inducing apoptosis of cancer cells. Also described are compounds and compositions for use in methods of thiamin depletion and treating diseases such as cancer, and methods for identifying thiamin-depleting agents and for preparing pharmaceutical compositions.

9 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINC
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☐ 2. Document ID: US 5387508 A

L4: Entry 2 of 3

File: USPT

Feb 7, 1995

US-PAT-NO: 5387508

DOCUMENT-IDENTIFIER: US 5387508 A

TITLE: Detection of cytotoxic agents using tetramitus rostratus

DATE-ISSUED: February 7, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jaffe; Robert L.	Long Island City	NY		

US-CL-CURRENT: 435/32; 435/258.1, 435/29, 435/4, 435/947

ABSTRACT:

Cytotoxic agents, and particularly DNA-damaging agents, can be detected in a sample by a method comprising the steps of

- (a) adding the sample to a living culture of Tetramitus rostratus in flagellate form,
- (b) determining the growth rate of the T. rostratus culture in the presence of the sample, and
- (c) comparing the growth rate of the T. rostratus culture in the presence of the sample to a standard growth rate. A decrease in growth rate is indicative of the presence of cytotoxic agents in the sample. The use of the flagellate T. rostratus allows this assay to be used on solid as well as liquid or gaseous samples because T. rostratus ingests particulate materials via a gullet.

17 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC
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☐ 3. Document ID: WO 200177364 A1 AU 200153171 A

L4: Entry 3 of 3

File: DWPI

Oct 18, 2001

DERWENT-ACC-NO: 2002-017467

DERWENT-WEEK: 200213

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TITLE: Detection of toxic substances in a sample e.g. food stuffs involves monitoring the swimming behavior of a living culture of Tetramitus rostratus in the sample

INVENTOR: JAFFE, R L

PRIORITY-DATA: 2000US-195340P (April 5, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200177364 A1	October 18, 2001	E	019	C12Q001/00
AU 200153171 A	October 23, 2001		000	C12Q001/00

INT-CL (IPC): C12 N 1/10; C12 Q 1/00; C12 Q 1/02

ABSTRACTED-PUB-NO: WO 200177364A

BASIC-ABSTRACT:

NOVELTY - Detection of toxic substances in a sample involves combining the sample with a living culture of Tetramitus rostratus in flagellate form and monitoring the swimming behavior of the culture in the sample. The loss of coordination of the swimming behavior of the culture is indicative of the presence of the toxic substance in the sample.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an apparatus for

assessing the sample for presence of the toxic substance comprising housing (a), reservoir (b) disposed within (a), sample inlet tube (c) passing through (a), an analysis probe (d) for observing the swimming behavior of the culture and a stirrer (e). The reservoir contains a living culture of Tetramitus rostratus in flagellate form. The sample inlet tube allows introduction of the sample from outside of (a) into (b).

USE - For detection of toxic substances in air, water or other solid, liquid or gaseous samples dispersed by terrorist or military opponent, can be incorporated into field-usable apparatus for use by military and law enforcement personnel. in monitoring of food stuffs for contamination and in environmental monitoring.

ADVANTAGE - The method is robust, rapid, easily interpreted and sensitive to a variety of toxic substances.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

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Term	Documents
TETRAMITUS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	4
TETRAMITU	0
(TETRAMITUS AND 3).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3
(L3 AND TETRAMITUS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

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[Previous Page](#)[Next Page](#)